



BEST AVAILABLE COPY
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2831

(7)

APPLICANT: Galen M. Gareis
CASE: 6500-1583.2
SERIAL NO.: 09/765,914
FILED ON: 01/18/01
FOR: High Performance Data Cable

) Art Unit: 2831

) Examiner: Mayo

TECHNOLOGY CENTER 2800
APR - 3 2002
WASHINGON D.C.

RECEIVED

CONFIRMATION

C O P Y

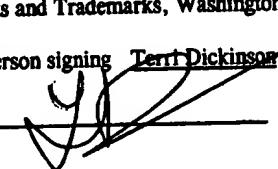
Assistant Commissioner for Patents
Washington D.C. 20231

- AUTHORIZATION TO PAY AND PETITION FOR THE ACCEPTANCE OF ANY NECESSARY FEES. If any charges or fees must be paid in connection with the following Communication, they may be paid out of our deposit account 12-0913. If this payment also requires a Petition, please construe this authorization to pay as the necessary Petition which is required to accompany this payment.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to "Commissioner of Patents and Trademarks, Washington, D.C. 20231" on March 22, 2002

Name of person signing Terr Dickinson

Signature 

AMENDMENT AND RESPONSE

On December 19, 2001, Applicant filed a complete response to the Office Action mailed June 21, 2002. Applicant requests the following additional amendments be entered.

In the Specification

Please amend the specification to amend the below paragraphs to read as shown. A version showing insertions and deletions is attached.

BEST AVAILABLE COPY

At page 4, the second full paragraph, lines 18-24; please delete the entire paragraph from the specification.

At page 4 and continuing to page 5, the third paragraph, lines 25-7; please delete the entire paragraph.

In the Claims

Please add new claim 11, 12, and 13 as shown below. A version of the claims showing insertions and deletions is attached.

11. A data cable having a plurality of twisted pair conductors and an interior support comprising:
a longitudinally extending central portion forming a portion of said support;
a plurality of projections radially extending from said central portion;
each projection of said plurality of projections being adjacent to two other projections of said plurality of projections, said plurality of projections forming a plurality of adjacent projections;
a different passage defined by each of said plurality of adjacent projections;
only one twisted pair conductor from said plurality of twisted pair conductors disposed in each different passage defined by each of said plurality of adjacent splines;
each twisted pair conductor having a first insulated electrical conductor and a second insulated electrical conductor, said first and second insulated conductors twisted about each other to form a twisted pair.
12. The cable of claim 11 wherein said passage is a passage selected from a group consisting of a channel, a groove, and a duct.
13. The cable of claim 11 wherein said projection is a projection selected from a group consisting of a prong, a spline, and an arm.

Remarks

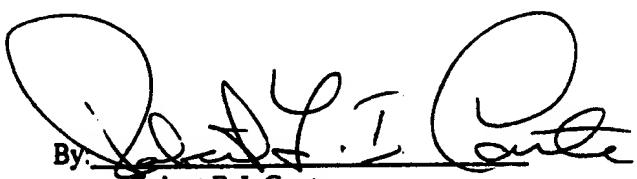
BEST AVAILABLE COPY

The present new claims 11, 12, and 13 are allowable over the cited prior art. None of cited prior art teaches the use of an interior support to space twisted pairs. Claims 11, 12, and 13 are allowable.

Respectfully submitted,

Date: May 19, 2002

By:


Robert F. I. Conte
Registration No.: 20,354
Lee, Mann, Smith, McWilliams,
Sweeney & Ohlson
209 S. LaSalle St., Ste. 410
Chicago, IL 60604
Telephone: 312-368-1300
Attorney for Applicant



BEST AVAILABLE COPY

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims

- 11. A data cable having a plurality of twisted pair conductors and an interior support comprising:
 - a longitudinally extending central portion forming a portion of said support;
 - a plurality of projections radially extending from said central portion;
 - each projection of said plurality of projections being adjacent to two other projections of said plurality of projections, said plurality of projections forming a plurality of adjacent projections;
 - a different passage defined by each of said plurality of adjacent projections;
 - only one twisted pair conductor from said plurality of twisted pair conductors disposed in each different passage defined by each of said plurality of adjacent splines;
 - each twisted pair conductor having a first insulated electrical conductor and a second insulated electrical conductor, said first and second insulated conductors twisted about each other to form a twisted pair. --
- 12. The cable of claim 11 wherein said passage is a passage selected from a group consisting of a channel, a groove, and a duct.--
- 13. The cable of claim 11 wherein said projection is a projection selected from a group consisting of a prong, a spline, and an arm.--

RECEIVED
APR - 3 2002
TECHNOLOGY CENTER 2800

In the Specification

At page 4, second full paragraph, lines 18-24; please delete the entire paragraph from the specification as follows:

[Some cables have used supports in connection with twisted pairs. These cables, however, suggest using a standard "X" or "+" shaped support, hereinafter both referred to as the "X" support. The

standard "X" support is completely different than this support. Protrusions extend from the standard "X" support. These protrusions have substantially parallel sides.]

At page 4, and continuing to page 5, the third paragraph, lines 25-27 should be amended as follows:

[The prongs or splines in this invention provide a superior crush resistance to the protrusions of the standard "X" support. The superior crush resistance better preserves the geometry of the pairs relative to each other and of the pairs relative to the other parts of the cables such as the shield. In addition, the prongs or splines in this invention preferably have a pointed or slightly rounded apex top which easily accommodates an overall shield.]



BEST AVAILABLE COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE APPLICATION OF

Galen M. Gareis

SERIAL NO: 09/765,914

FILED: 01/18/01

FOR: High Performance Data Cable

) Examiner: Mayo III, W.

)

) Group Art Unit: 2831

)

)

)

)

)

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to "Director of Patents and Trademarks, Washington D.C. 20231", on March 19, 2002.

Name of person signing Farterria G. Dickerson
Signature RD

TECHNOLOGY

APR - 3
2002

RECEIVED

Honorable Director of
Patents and Trademarks
Washington, D.C. 20231

- AUTHORIZATION TO PAY AND PETITION FOR THE ACCEPTANCE OF ANY NECESSARY FEES. If any charges or fees must be paid in connection with the following Communication, they may be paid out of our deposit account 12-0913. If this payment also requires a Petition, please construe this authorization to pay as the necessary Petition which is required to accompany this payment.

INFORMATION DISCLOSURE STATEMENT

We enclose herewith an Information Disclosure Statement, PTO Form A820, and the references listed therein.

Date

Mar 19, 2002

Respectfully Submitted,

Robert F.I. Conte
Registration No. 20,354
Lee, Mann, Smith, McWilliams, Sweeney,
& Ohlson
209 S. LaSalle Street, Suite 410
Chicago, IL 60604
312-368-1300
312-368-0064 (Fax)

INFORMATION DISCLOSURE C
(Use several sheets if necessary)

(Use several sheets if necessary)

A circular U.S. Patent Office stamp. The outer ring contains the words "U.S. PATENT OFFICE" at the top and "SEARCHED" and "SERIALIZED" at the bottom. The center of the stamp contains the date "APR 01 2002", the word "RECEIVED", and "JULY 15 2002".

Docket Number (Optional) 6500-15	Application Number 09/765,914
Applicant(s) Galen M. Gareis	
Filing Date 01/18/01	Group Art Unit 2831

U.S. PATENT DOCUMENTS

RECEIVED
APR - 3 2002
TECHNOLOGY CENTER 2800

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

EKAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.